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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : James C. Liao  
Serial No. : 10/048,186  
Filed : June 19, 2002  
Title : ENGINEERING OF METABOLIC CONTROL

Art Unit : 1652  
Examiner : Unknown

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Applicant submits the references listed on the attached form PTO-1449, copies of which are enclosed.

This statement is being filed before the receipt of a first Office action on the merits.  
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Respectfully submitted,

Date: 5-16-03

Y. Rocky Tsao

Y. Rocky Tsao  
Reg. No. 34,053

Fish & Richardson P.C.  
225 Franklin Street  
Boston, Massachusetts 02110-2804  
Telephone: (617) 542-5070  
Facsimile: (617) 542-8906

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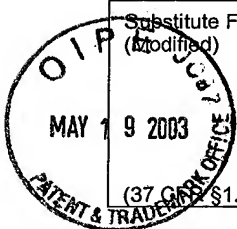
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Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
06497-013002Application No.  
10/048,186**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 C.F.R. § 1.98(b))

Applicant  
James C. Liao

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Filing Date  
June 19, 2002Group Art Unit  
1652

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**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	BA						

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	BB							

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	BC	Alex and Simon, "Protein histidine kinases and signal transduction in prokaryotes and eukaryotes", <i>Trends in Genetics</i> 10(4):133-138 (1994)
	BD	Aristidou et al., "Metabolic engineering of <i>Escherichia coli</i> to enhance recombinant protein production through acetate reduction", <i>Biotechnol. Prog.</i> 11:475-478 (1995)
	BE	Bauer et al., "Improved expression of human interleukin-2 in high-cell-density fermentor cultures of <i>Escherichia coli</i> K-12 by a phosphotransacetylase mutant", <i>Appl Environ Microbiol.</i> 56(5):1296-1302 (1990)
	BF	DeWitt et al., This Month in <i>Nature Biotechnology</i> , <i>Nature Biotechnology</i> 18:480 (2000)
	BG	Diez-Gonzalez and Russell, "The ability of <i>Escherichia coli</i> O157:H7 to decrease its intracellular pH and resist the toxicity of acetic acid", <i>Microbiology</i> 143:1175-1180 (1997)
	BH	Farmer and Liao, "Improving lycopene production in <i>Escherichia coli</i> by engineering metabolic control," <i>Nature Biotechnol.</i> 18:533-537 (2000)
	BI	Hakenbeck and Stock, "Analysis of Two-Component Signal Transduction Systems Involved in Transcriptional Regulation", <i>Methods in Enzymology</i> 273:281-301 (1996)
	BJ	Parkinson and Kofoed, "Communication Modules in Bacterial Signaling Proteins", <i>Annu. Rev. Genet.</i> 26:71-112 (1992)
	BK	Sevenich et al., "DNA binding and oligomerization of NtrC studied by fluorescence anisotropy and fluorescence correlation spectroscopy", <i>Nucleic Acid Res.</i> 26(6):1373-1381 (1998)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	